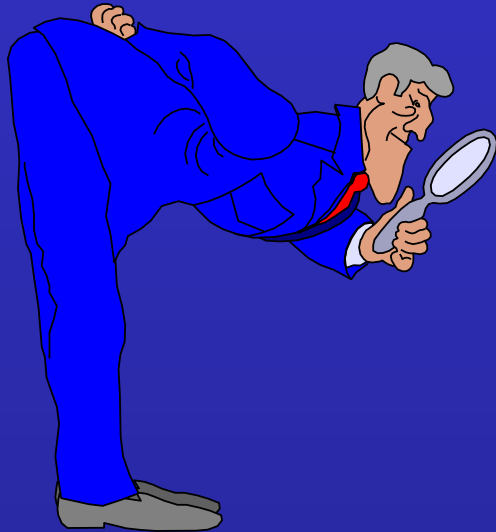


Logistics E-Business/E-Commerce Capabilities Overview

Electronic Business Server (EBS)
and
Electronic Commerce Warehouse (ECW)

Agenda



**Let's take a closer look at
that EBS and ECW software**

- History
- EBS
 - Product Description
 - Architecture
 - Communications
 - Translation
 - Routing
- ECW
 - Definitions
 - Architecture
- Logistics EB/EC Architecture
 - Example
 - Methodology

EBS History

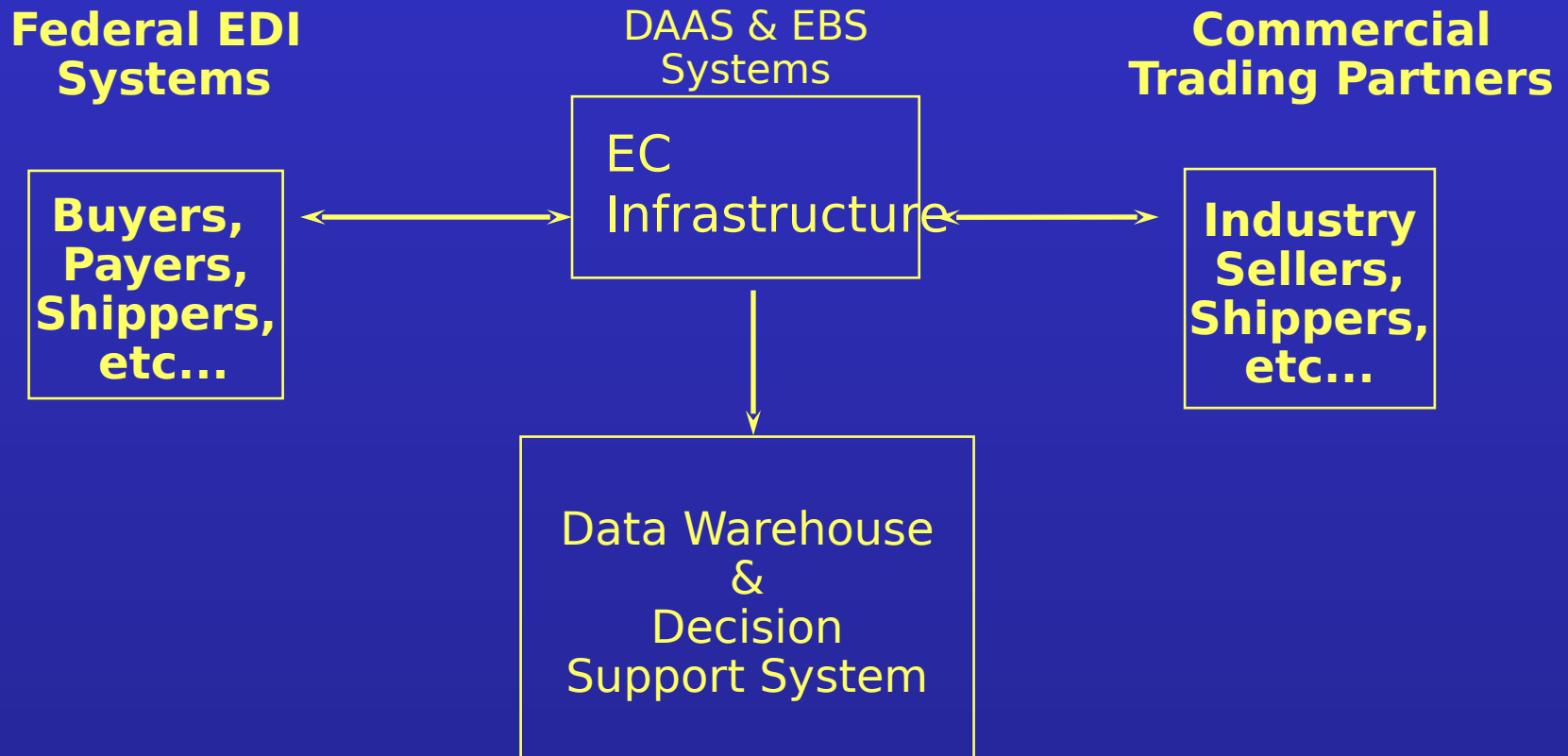
- DISA replaces legacy Network Entry Point software resident at Defense Mega Centers
- COTS & GOTS products integrated to address specific EC/EDI requirements (Operational - 1996)
 - Communications interfaces
 - Message processing
 - Messaging logging
 - High throughput
 - Message auditability
 - Security
 - Reliability
 - Translation (1998)

EBS also referred to as the ECPN

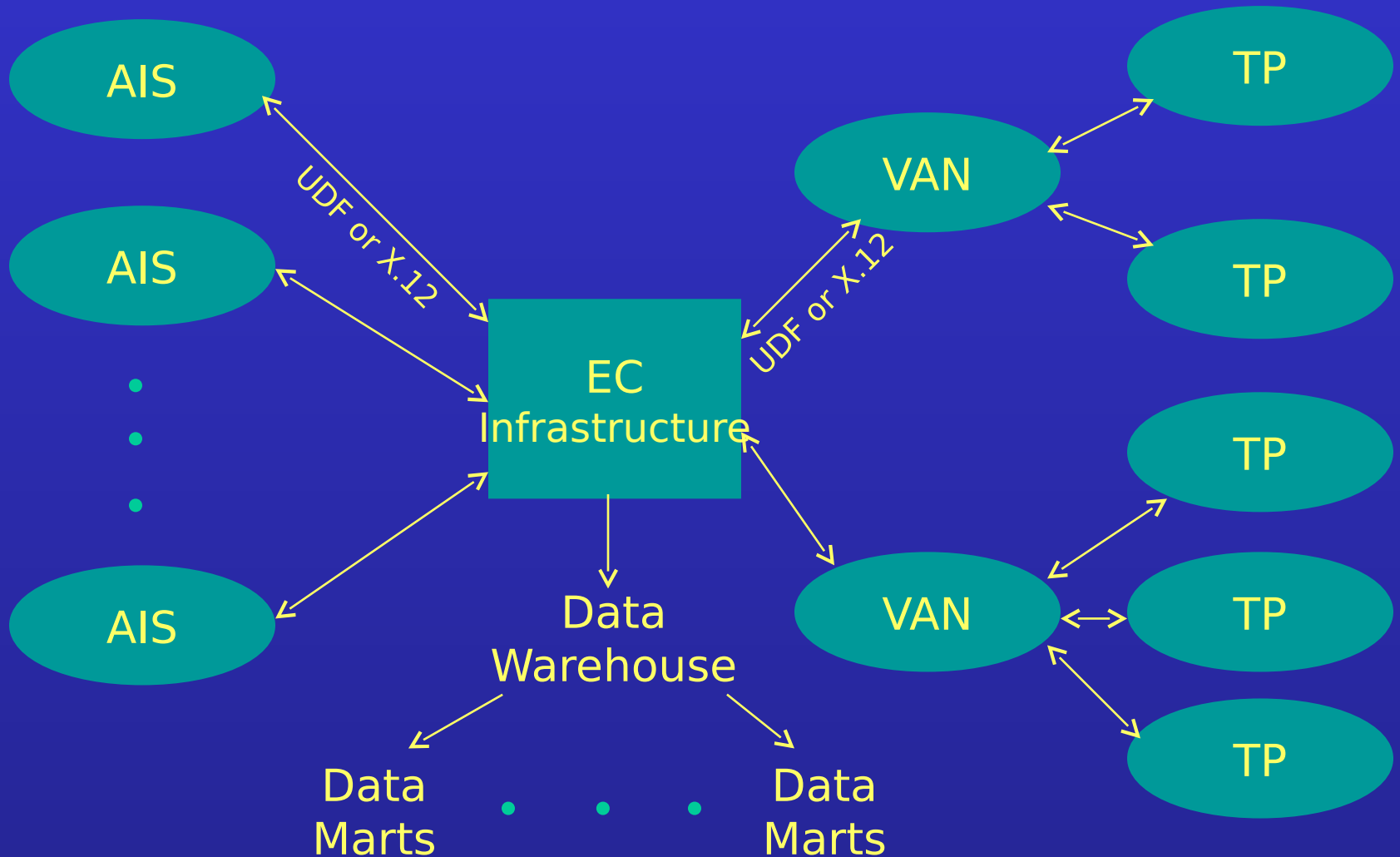
EBS Product Description

- Enterprise Business Server for formatted message communication, translation, routing, archival, retrieval, and auditability
- Runs on HP T520 processors under HPUX with EMC mass storage (Scalable)
- Custom integrated product for DoD with Oracle, Netscape Enterprise Server and TSI Mercator translator.
- COE Compliant

High Level ECI Architecture



DOD Logistics EC Infrastructure Architecture



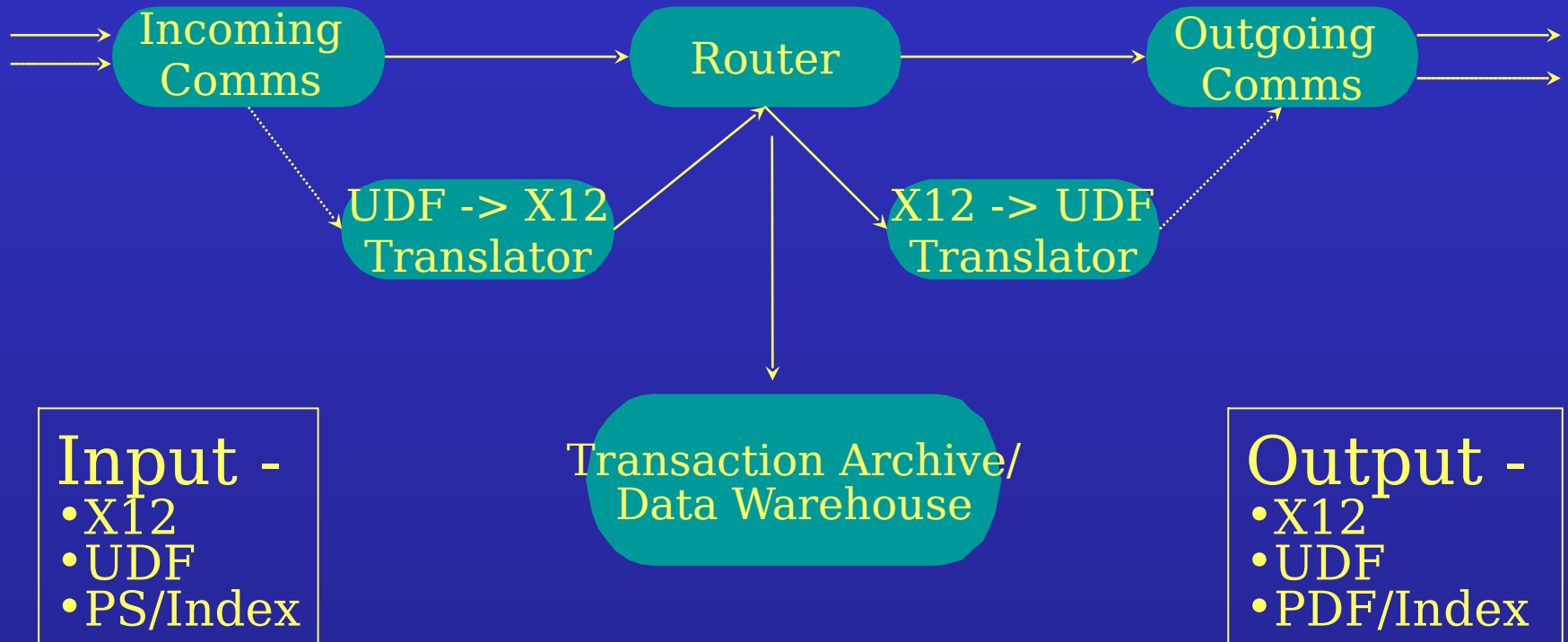
AIS - Automated Information System Network

VAN - Value Added Network

ECI - DAAS & Enterprise Business Server (EBS)

TP - Trading Partner

EBS - Data Flow Architecture



——>UDF Message
- - ->X12 Message

Defense Travel System Accounting & Disbursing Systems

Navy

Disbursing Sys:
ADS
STARS OP
(CBA)

Acct Sys:
DIFMS
DWAS
IFAS
STARS FL/HCM
Legacy

Army

Disbursing Sys:
SRD-1

Acct Sys:
STANFINS
SIFS
SOMARDS

CAPS-W (CBA)*

Air Force

Disbursing Sys:
IPC

Acct Sys:
GAFS

Service Owned

Disbursing Sys:
IPC

Acct Sys:
TFS

Guard/Reserves Owned

Disbursing Sys:
SRD-1

Acct Sys:
ARROWS
AORS
AFCOS

Other - DFAS

Disbursing Sys:
SRD-1

Acct Sys:
DBMS (DLA)
SABRS (MC)

CAPS-W (CBA)*



821 udf/810 udf
820 udf/824 udf

821 udf/810 udf

820 udf/824 udf

821 udf/810 udf
820 udf/824 udf

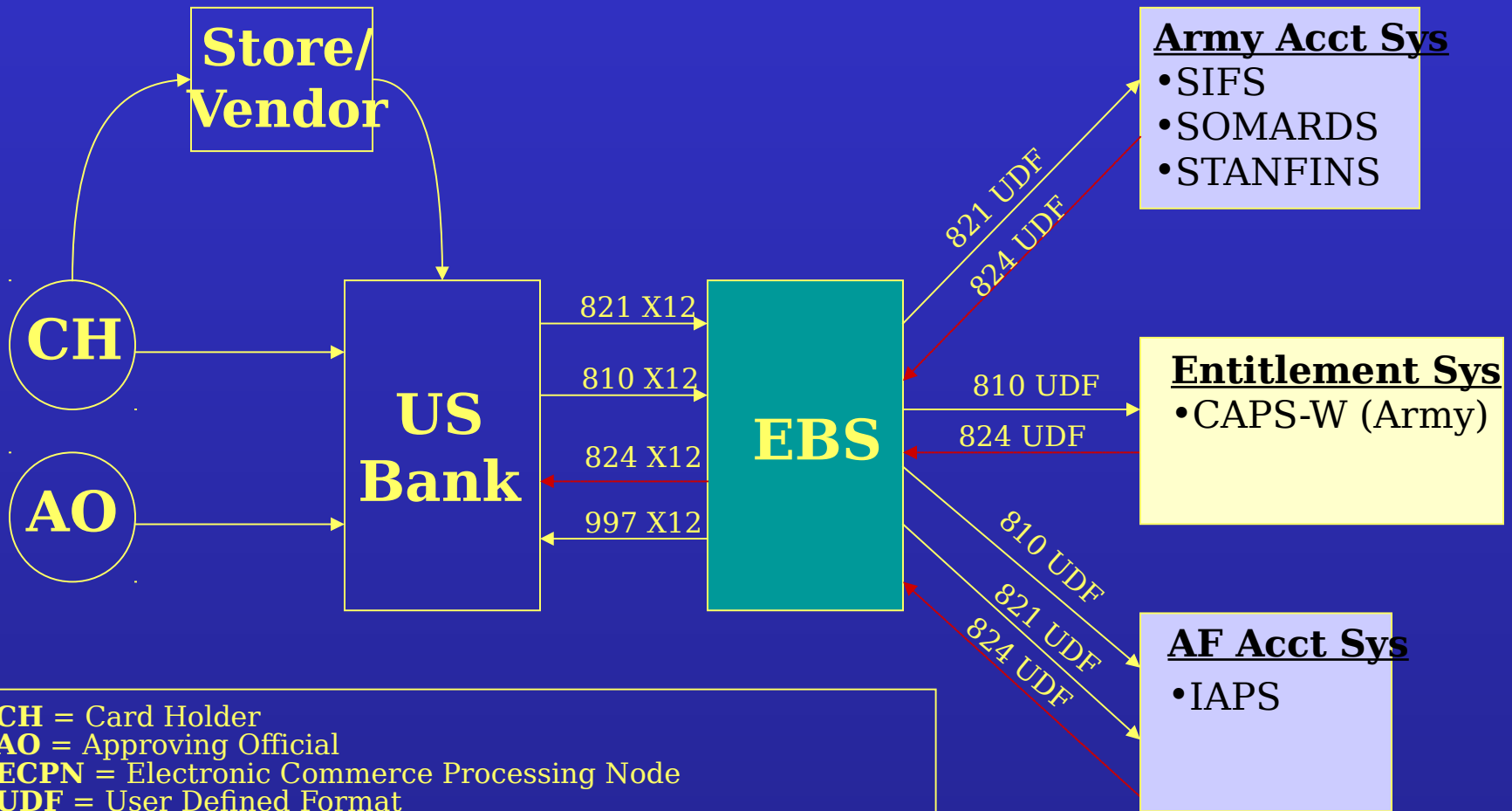
821 udf/810 udf
820 udf/824 udf

821 udf/810 udf
820 udf/824 udf

821 udf/810 udf
820 udf/824 udf

820 udf/824 udf
821 udf/810 udf

Purchase Card



CH = Card Holder
AO = Approving Official
ECPN = Electronic Commerce Processing Node
UDF = User Defined Format
SIFS - Standard Industrial Fund System
SOMARDS = Standard Operation and Maintenance Army Research & Development System
STANFINS = Standard Army Finance System
CAPS-W = Computerized Accounts Payable System for Windows
IAPS = Integrated Accounts Payable System

← Indicates future functionality

EBS - Communications

- EBS manages each communication end-point as a separate channel
 - AIS
 - VAN
 - Gateway
 - CCR
- Channels contain information about the connection site
 - Communication protocol
 - Message type (X12 or UDF)
 - Connection frequency or cycle time
- Connections and Protocols Supported
 - Serial (Kermit, ZMODEM, and CLEO)
 - Network (FTP)
 - E-Mail (SMTP and MIME)

EBS - Translation

- Transaction translation
 - Between User-Defined Format (UDF) and ANSI X12s
 - From Postscript to Portable Document Format (PDF)
 - From UDF to FDF/PDF (prototype)
- Generates ISA and GS X12 elements from look-up tables and system setup database
- Generates 824/997 translation acknowledgements
 - Always, or upon failure
 - Acknowledgements sent back to incoming channel or E-mail address

Any - to - Any Format is the objective

Translation - Fielded Translations

- Standard Army Automated Contract System (SAACONS)
- Standard Procurement System (SPS) EDI transactions
- Standard Procurement System (SPS) EDA transactions
- Integrated Garnishment System (IGS)
- Procurement Automated Data and Document System (PADDS)
- Integrated Paying and Collecting (IPC) with Electronic Funds Transfer (EFT)

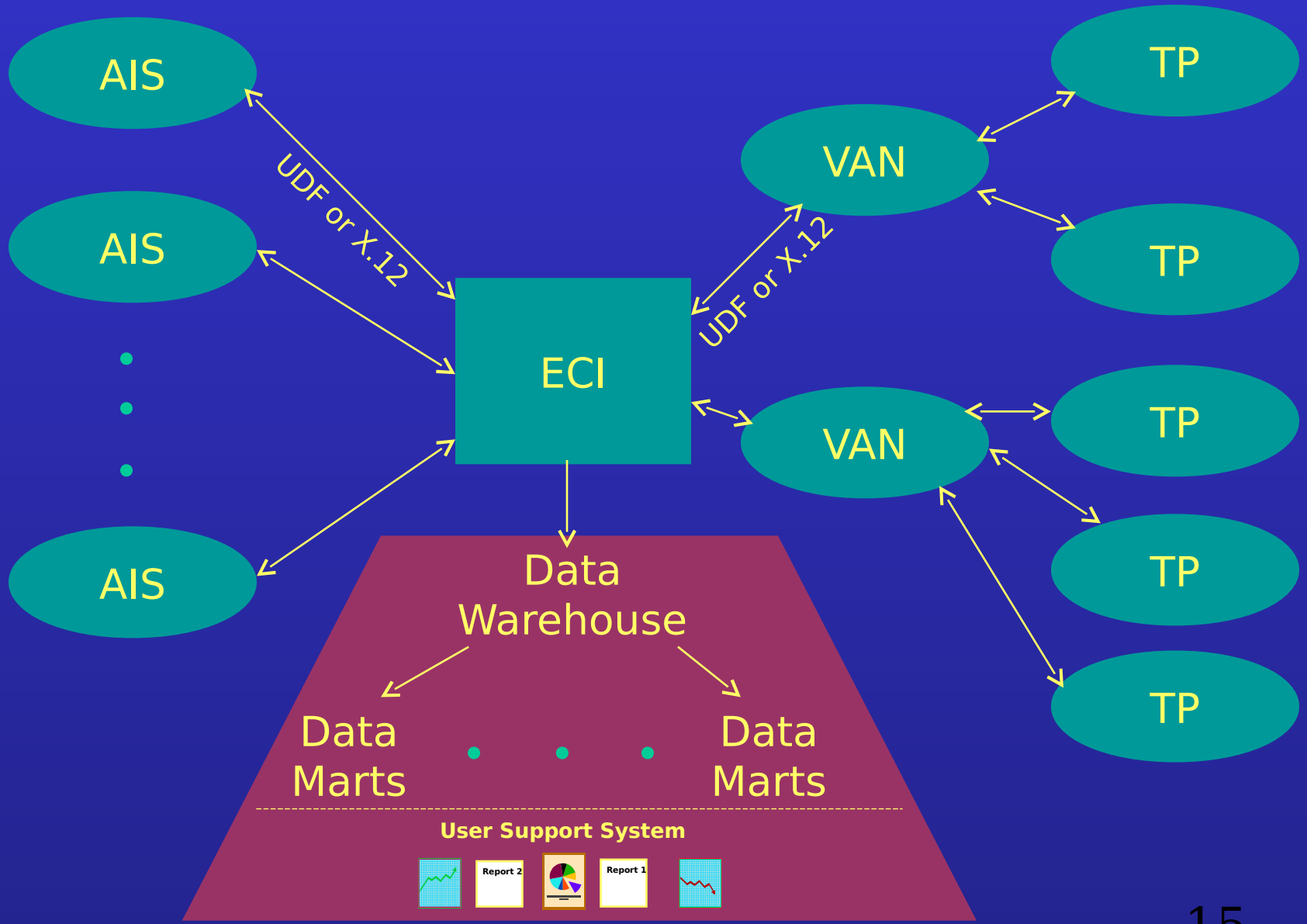
EBS - Routing

- Route transactions by:
 - ISA07/08
 - GS03
 - VAN name
 - Incoming channel
 - Incoming file name
 - Transaction Type
- Allows use of wild cards to perform routing
- One-to-one and many-to-many routing
 - Point -2- Point
 - One source to many destinations
 - Many sources to one destination
 - Many sources to many destinations

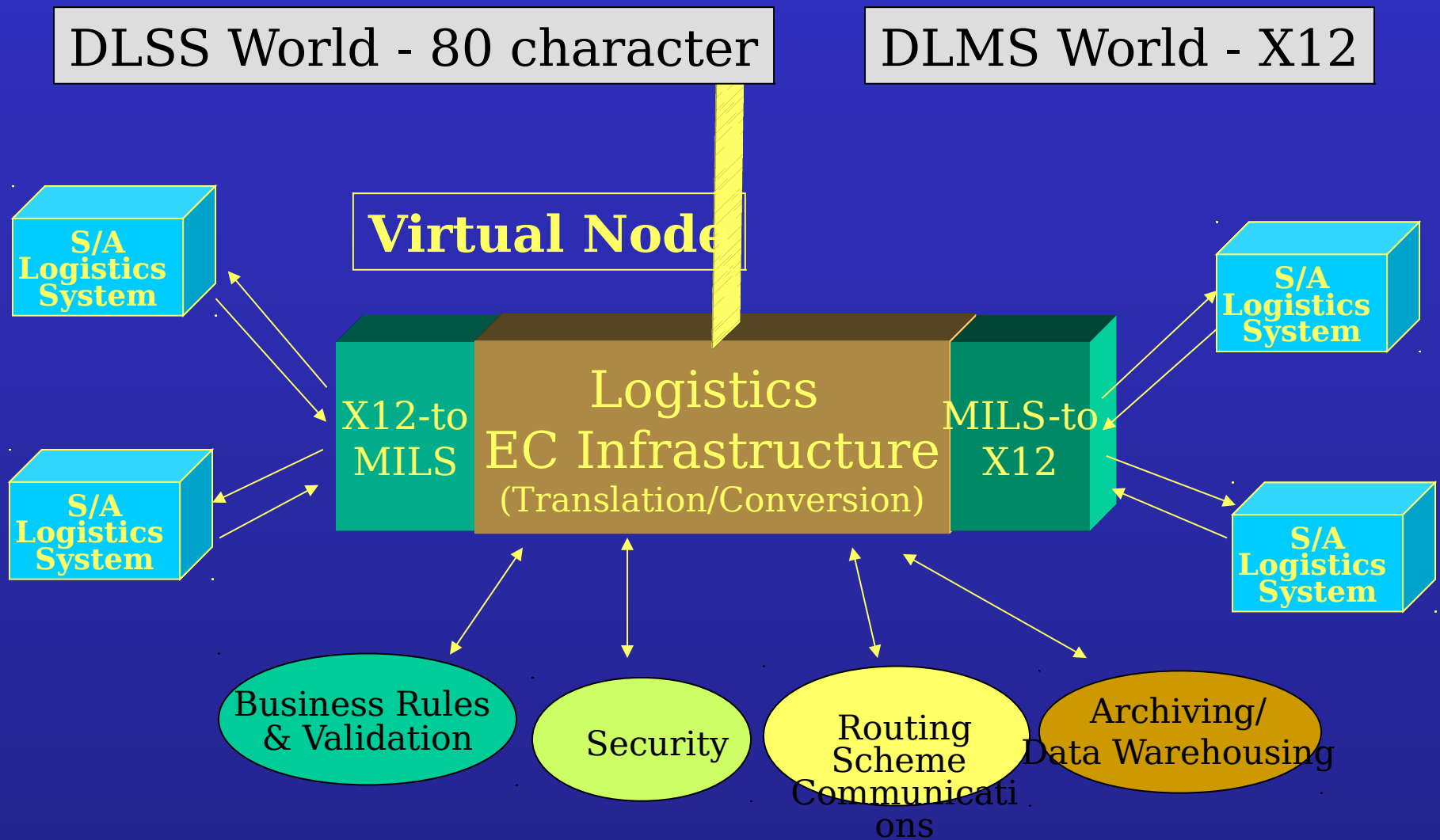
ECW - Definitions

- Data Warehouse
 - A repository of historical legacy data that is common to the enterprise, used to perform analysis
- Data Mart
 - Data extracted from the data warehouse that is specific to a subject area or department
- User Support System
 - A system that allows the knowledge worker to make strategic and tactical level decisions based on corporate information

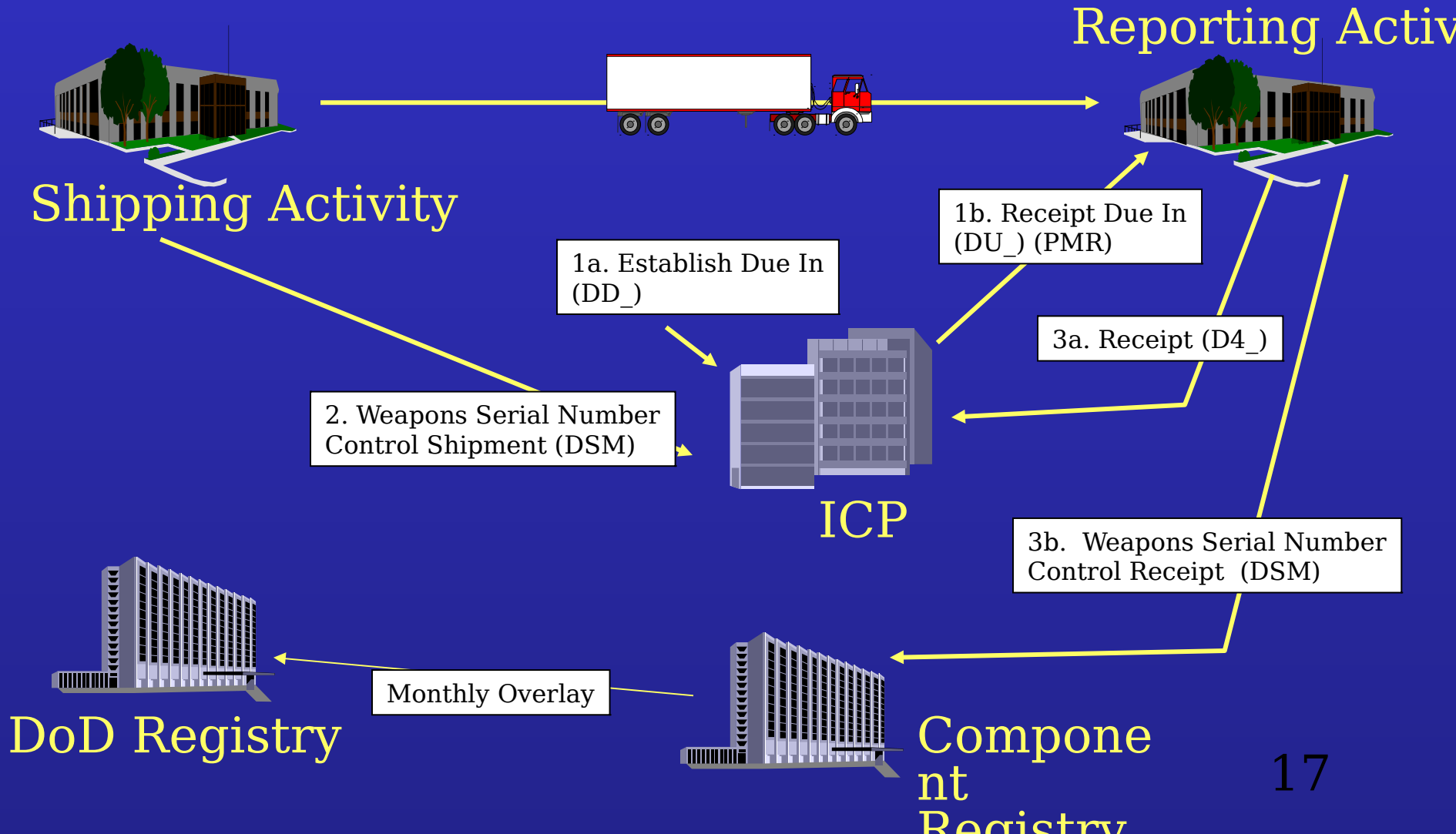
Functional Block Diagram - EC Warehouse Discussions



Basic Logistics EB/EC System Functionality



MILSTRAP Small Arms Serial Number Registration and Reporting



“Possible” Methodology

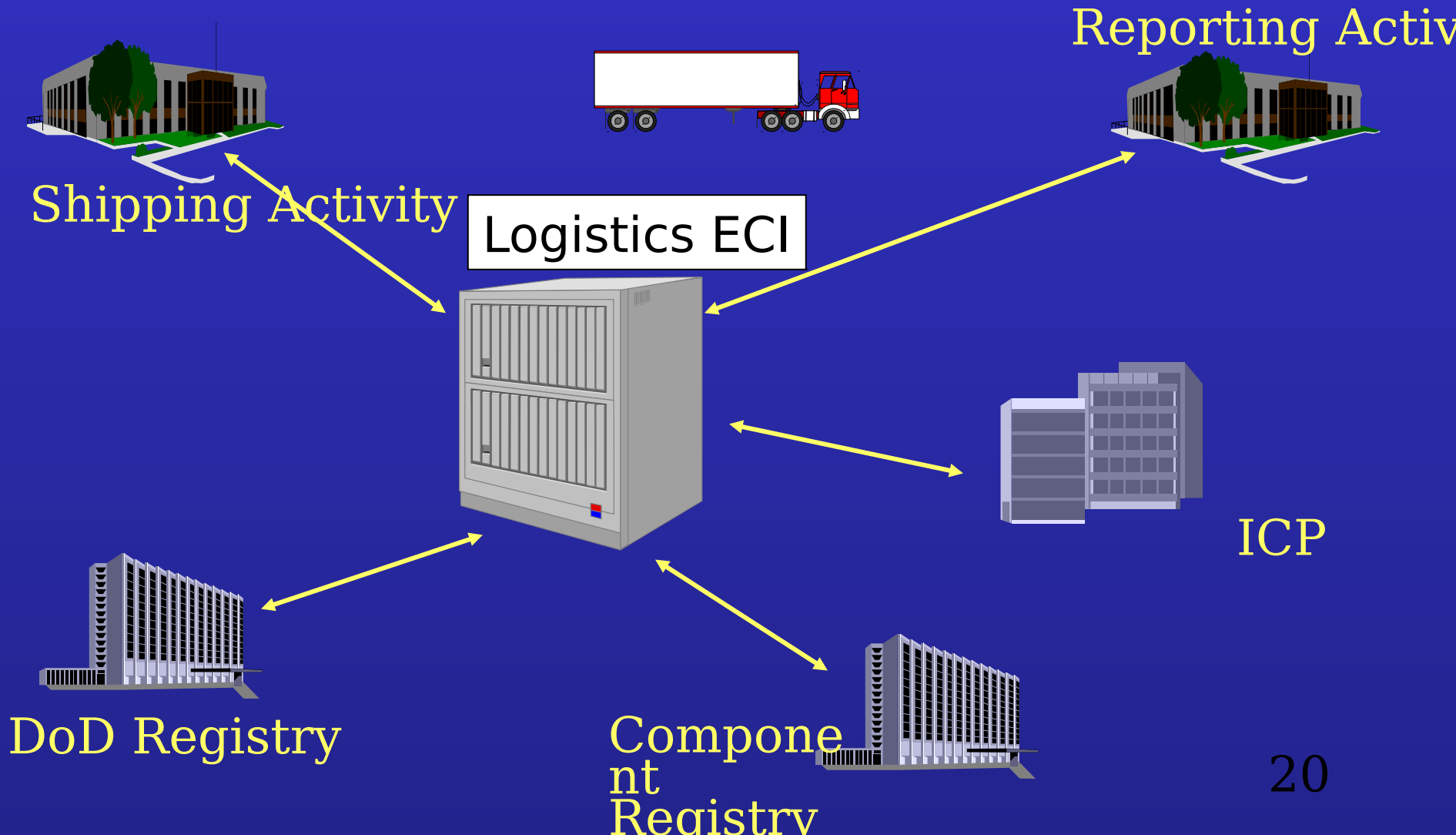
- Collect Systems that must interact/transfer information - by group/function (spreadsheet)
- Determine ‘who’ must get ‘what’ information
- Produce crosswalk to X12 (Building Code) (MILS vs X12 data elements)
- Identify mandatory fields in X12 that must be provided (ECI, source of Business Rules).

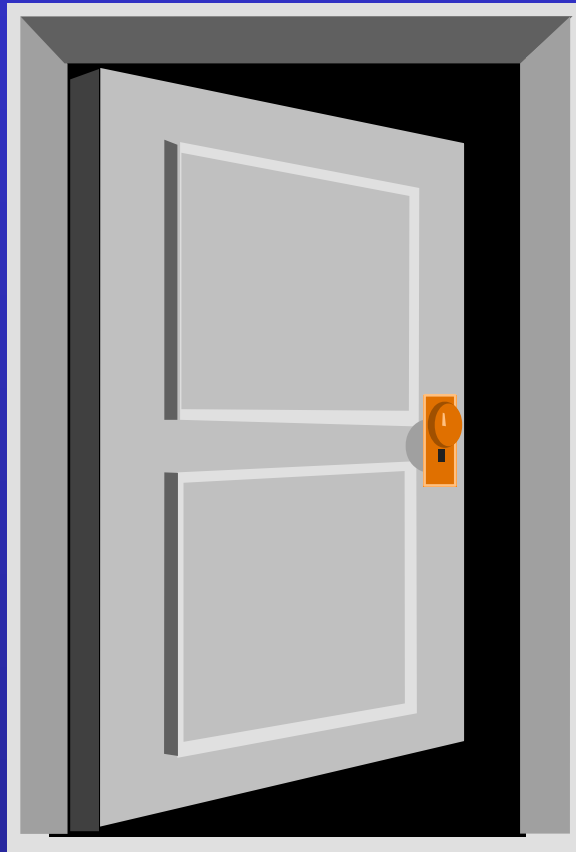
Methodology - cont

- Determine short term solutions to get the information that meet those field requirements
- Determine best format for transaction(MILS, UDF, X12, XML, etc)

Full understanding of interface requirements
is key to success

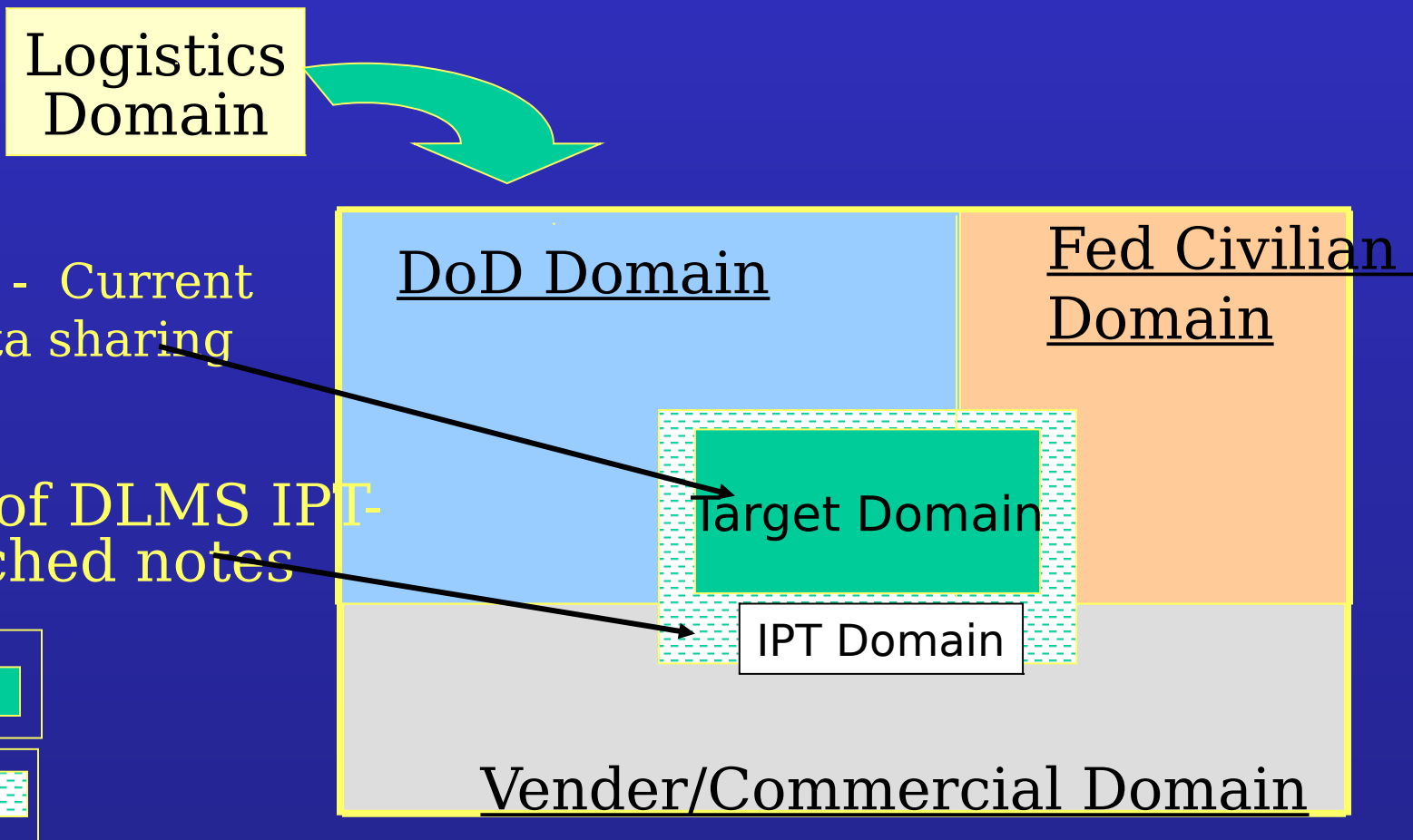
DLMS Small Arms Serial Number Registration and Reporting



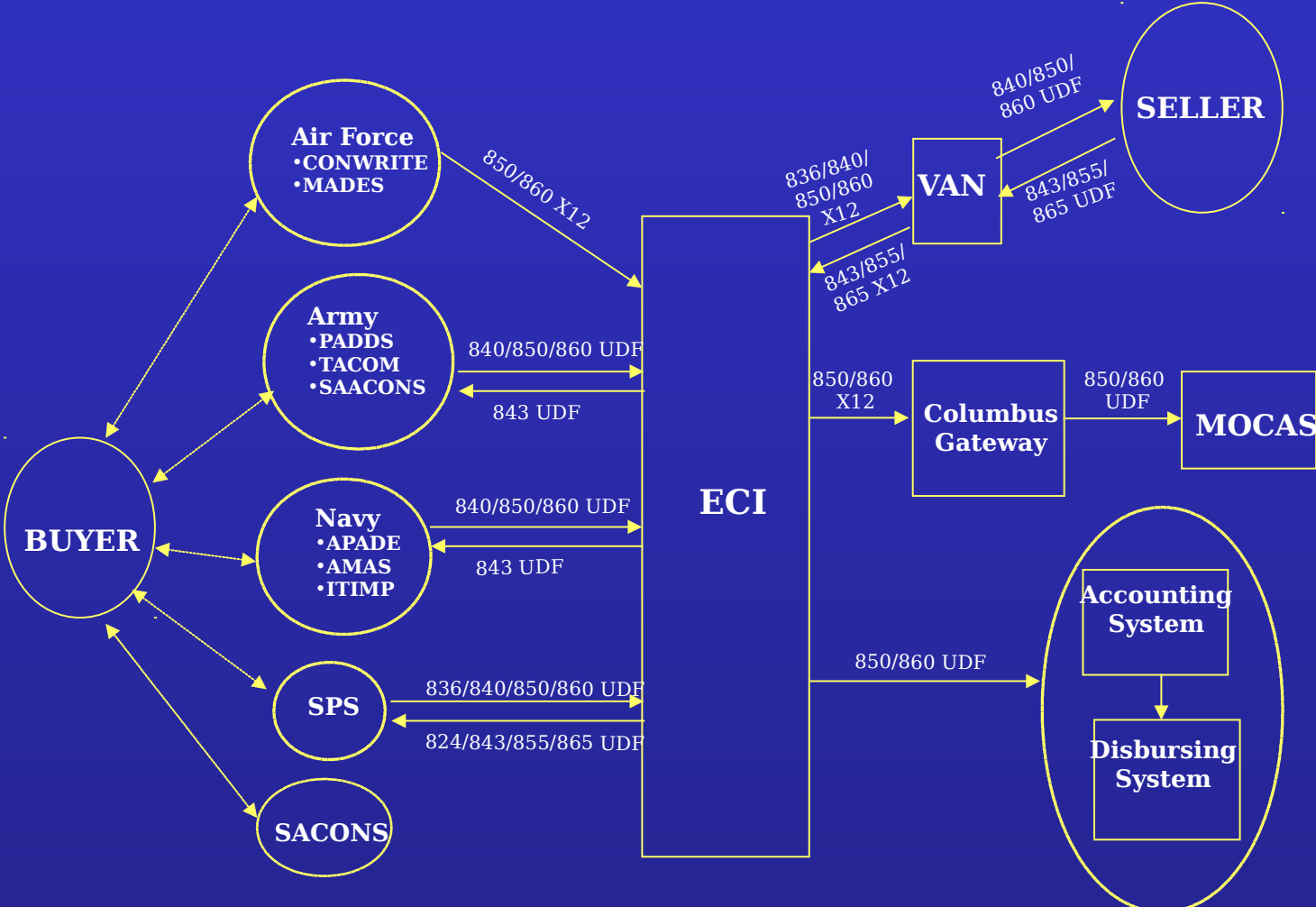


Back-up Slides

DLMS Goals - What is the scope



Defense Finance and Account Systems Procurement Systems



ECW - System Architecture

